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1600

## RAW SEQUENCE LISTING

DATE: 06/03/2003

PATENT APPLICATION: US/09/308,829

TIME: 11:02:16

Input Set : A:\Sequence listing.txt

Output Set: N:\CRF4\06032003\I308829.raw

3 <110> APPLICANT: Schlievert, Patrick M.  
 4 Ohlendorf, Douglas  
 5 Mitchell, David T.  
 6 Gahr, Pamala J.  
 8 <120> TITLE OF INVENTION: MUTANTS OF STREPTOCOCCAL TOXIN C AND METHODS OF USE  
 10 <130> FILE REFERENCE: 600.347USWO  
 12 <140> CURRENT APPLICATION NUMBER: US 09/308,829  
 13 <141> CURRENT FILING DATE: 1999-07-14  
 15 <150> PRIOR APPLICATION NUMBER: PCT/US97/22125  
 16 <151> PRIOR FILING DATE: 1997-12-05  
 18 <150> PRIOR APPLICATION NUMBER: US 60/033,251  
 19 <151> PRIOR FILING DATE: 1996-12-06  
 21 <160> NUMBER OF SEQ ID NOS: 2  
 23 <170> SOFTWARE: PatentIn version 3.1  
 25 <210> SEQ ID NO: 1  
 26 <211> LENGTH: 936  
 27 <212> TYPE: DNA  
 28 <213> ORGANISM: Streptococcus pyogenes  
 30 <220> FEATURE:  
 31 <221> NAME/KEY: CDS  
 32 <222> LOCATION: (154)..(858)  
 33 <223> OTHER INFORMATION:

ENTERED

W--&gt; 36 &lt;400&gt; 1

37	caaccttgac	tattttaa	atg	gaactgcc	ac	tcctaaaa	aac	taaaata	tataa	atacatt	tat	60	
39	aaaattt	tcta	aataaac	aga	aatctg	attt	ttaact	actt	actgct	attt	catgt	atttct	120
41	cgtacg	agta	atacatt	ttaa	ttaagg	agaa	aaa	atg	aaa	aag	att	aac atc atc	174
42								Met	Lys	Lys	Ile	Asn Ile Ile	
43								1			5		
45	aaa	ata	gtt	ttc	ata	att	aca	gtc	ata	ctg	att	tct act tat ttc acc	222
46	Lys	Ile	Val	Phe	Ile	Ile	Thr	Val	Ile	Leu	Ile	Ser Thr Tyr Phe Thr	
47		10						15			20		
49	tat	cat	caa	agt	gac	tct	aag	aaa	gac	att	tcg	aat gtt aaa agt gat	270
50	Tyr	His	Gln	Ser	Asp	Ser	Lys	Lys	Asp	Ile	Ser	Asn Val Lys Ser Asp	
51		25						30			35		
53	tta	ctt	tat	gca	tac	act	ata	act	cct	tat	gat	tat aaa gat tgc agg	318
54	Leu	Leu	Tyr	Ala	Tyr	Thr	Ile	Thr	Pro	Tyr	Asp	Tyr Lys Asp Cys Arg	
55	40							45			50	55	
57	gta	aat	ttt	tca	acg	aca	cac	aca	tta	aac	att	gat act caa aaa tat	366
58	Val	Asn	Phe	Ser	Thr	Thr	His	Thr	Leu	Asn	Ile	Asp Thr Gln Lys Tyr	
59								60			65	70	
61	aga	ggg	aaa	gac	tat	tat	att	agt	tcc	gaa	atg	tct tat gag gcc tct	414
62	Arg	Gly	Lys	Asp	Tyr	Tyr	Ile	Ser	Ser	Glu	Met	Ser Tyr Glu Ala Ser	
63								75			80	85	

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140          100          105          110
143 Ile Tyr Gly Gly Ile Thr Pro Ala Gln Asn Asn Lys Val Asn His Lys
144          115          120          125
147 Leu Leu Gly Asn Leu Phe Ile Ser Gly Glu Ser Gln Gln Asn Leu Asn
148          130          135          140
151 Asn Lys Ile Ile Leu Glu Lys Asp Ile Val Thr Phe Gln Glu Ile Asp
152 145          150          155          160
155 Phe Lys Ile Arg Lys Tyr Leu Met Asp Asn Tyr Lys Ile Tyr Asp Ala
156          165          170          175
159 Thr Ser Pro Tyr Val Ser Gly Arg Ile Glu Ile Gly Thr Lys Asp Gly
160          180          185          190
163 Lys His Glu Gln Ile Asp Leu Phe Asp Ser Pro Asn Glu Gly Thr Arg
164          195          200          205
167 Ser Asp Ile Phe Ala Lys Tyr Lys Asp Asn Arg Ile Ile Asn Met Lys
168          210          215          220
171 Asn Phe Ser His Phe Asp Ile Tyr Leu Glu Lys
172 225          230          235

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**VERIFICATION SUMMARY**

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L:36 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1,Line#:33



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1	BIB	1

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